#### IMPOWER

[Syntax](Syntax.docx):

IMPOWER ( complex-number , y )

Description: Computes the complex number complex-number raised to the power y.

Mathematical Formula:

Equation

where:

Equation

and:

Equation

and:

Equation

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| complex-number | [text](text.docx) | The complex number in x + yi or x + yj text format. |
| y | number | The exponent to which complex-number is to be raised. |

Return Type and Value: text – A string containing complex-numbery, in x+yi or x+yj text format.

However, if complex-number is ill-formed, #NUM! is returned.

[Example:  
  
IMPOWER("2.3+4.5i",2.5) results in -52.9752689709953+22.138528463954i  
IMPOWER("-1-4j",-3.56) results in 6.34818926783845E-003+1.16156377299512E-003j  
  
end example]